1. a) What are the different attributes of software quality? List all and explain any one in brief.
b) Describe RUP in two to three lines. Also list four phases of RUP development cycle.
c) Describe the typical inputs and outputs of the planning activity of a software project in one to two lines.
d) Give broad outline of software project estimation.
e) List any two important risks while managing software project development. Along with the risk, also list the risk management techniques for the risks you have enlisted.
f) Differentiate verification and validations in brief.
g) Give any UML class diagram of your choice showing inheritance.

2. a) Define the term project. Also list necessary skills for project management.
b) Explain the steps in project planning.

3. a) Describe any one technique of effort estimation for an information system development project.
b) Explain waterfall model in detail. Also list limitations of it.

4. a) Explain systems prototype approach along with its benefits and limitations.
b) What is SCRUM? What is the main use of it?
c) Define extreme programming (XP) in brief.

5. a) List and describe in brief different types of resource for project management.
b) What is an activity network? What purpose does it solve? Give an example of activity network.

6. a) List various types of contracts for project development and explain any one type of contract.
b) Describe chief programmer team with proper diagram. Also mention advantages and disadvantages of it.

7. a) Define product and process metrics for managing quality of software.
b) Describe in brief the levels of CMM.